



XP-V520

Y

XP-V521

AEZ

XP-V522

AEZ,AK

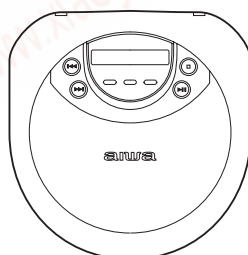
XP-V523

ALH

XP-V5210

AU

XP-V5260C_{AU}



SERVICE MANUAL

COMPACT DISC PLAYER

BASIC CD MECHANISM: DA23LN,DA23LH

MODELS	CD MECHANISM
V5210<AU>,V5260C<AU>	DA23LN
520<Y>,V521<AEZ>,V522<AEZ>,V522<AK>,V523<ALH>	DA23LH

- This Service Manual does not include "TEST MODE". This item will be issued in the next supplement.
- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" XP-V520 / V521 / V522 / V5210 / V5260C <Y,AEZ,AU>, (S/M Code No. 09-011-441-2T1).

aiwa

S/M Code No. 09-012-441-2R1

REVISION

DATA

SPECIFICATIONS

Tracking system: 3-beam laser
Laser pickup: Semiconductor laser
D/A conversion: 4-times oversampling digital filter + 1-bit DAC
Frequency response: 20 - 20,000 Hz
Output: PHONES / LINE OUT jack (stereo mini-jack)
Maximum output: 523ALH,5210AU,5260CAU:
12 mW + 12 mW (16 ohms at 1 kHz)
520Y,521AEZ,522AEZ,522AK:
10 mW + 10 mW (16 ohms at 1 kHz)
500 mV (47 k ohms at 1 kHz)
Power supply: DC 3 V using two LR6 (size AA) alkaline batteries
520Y,521AEZ,523ALH,5210AU,5260CAU:
DC 2.4 V using two commercially available rechargeable batteries (Ni-Cd 1.2 V 700 mAh)
522AEZ,522AK:
DC 2.4 V using supplied rechargeable batteries EXCEPT 520Y:
AC house current using the supplied AC adaptor 520Y:
AC house current using an AC adaptor whose rated output is DC 5-6 V,250 - 300 mA
Dimensions: 128 (W) x 25.8 (H) x 129.5 (D) mm
(5 ¹/₈ x 1 ¹/₁₆ x 5 ¹/₈ in.)
(excluding projecting parts and controls)
Weight: Approx. 206 g (7.2 oz.) excluding batteries
AC adaptor AC-D603: Rated voltage:
5210AU,5260CAU: AC 120 V, 60 Hz
521AEZ,522AEZ,522AK: AC 230 V, 50 Hz
523ALH: AC 115 / 230 V, switchable 50/60 Hz

Supplied headphone HP-M062<520Y,521AEZ,522AEZ,522AK>

Type: In-ear type
Impedance: 16 ohms
Sensitivity: 103 dB/mW

Recommended commercially available headphones <520Y,521AEZ,522AEZ,522AK>

Type: In-ear type / Vertical type / Headband type
Impedance: 16-32 ohms
Sensitivity: 96-105 dB/mW

Car audio cassette adaptor<5260CAU>

Frequency range: 50 - 20,000 Hz(It may differ depending on the type of your cassette car stereo)

Cord Length: 1.5 m (4 ft 11 in.)

Dimensions: 102.4 (W) X 12.1 (H) X 63.8 (D) mm
(4 ¹/₈ X ¹/₂ X 2 ⁵/₈ in.)

Weight: Approx. 41 g (1.4 oz.)

Car battery adaptor<5260CAU>

Input voltage: DC 12 V / 24 V

Output voltage: DC 6 V 300 mA

Cord length: 1.5 m (4 ft 11 in.)

Weight: Approx. 53 g (1.9 oz.)

• Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

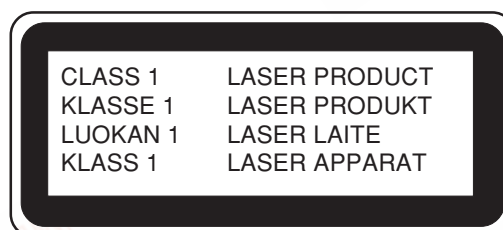
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

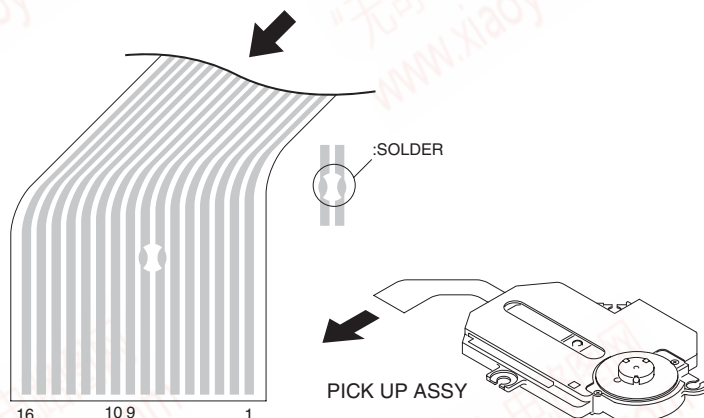
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (SF-P200L)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in right figure.



ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C419	87-012-184-080		C-CAP,U 33P-50 CH
	87-A21-448-040		C-IC,BH6554FV	C421	87-010-831-080		C-CAP,U,0.1-16F
	8B-HC4-610-010		C-IC,MN101C439-AJ	C422	87-010-831-080		C-CAP,U,0.1-16F
	87-A21-874-010		C-IC,MN35530	C423	87-010-831-080		C-CAP,U,0.1-16F
	87-A21-140-010		C-IC,MSM51V17400D	C451	87-010-831-080		C-CAP,U,0.1-16F
	87-A21-873-040		C-IC,AN8399SA				
	87-A21-449-040		C-IC,AN8746SA	C501	87-016-429-080		C-CAP,E 100-4 5.5N
	87-A21-085-040		C-IC,TA2120FN	C502	87-010-831-080		C-CAP,U,0.1-16F
TRANSISTOR				C503	87-010-787-080		CAP, U 0.022-25
	87-A30-429-040		C-TR,DTC123JKA	C504	87-010-787-080		CAP, U 0.022-25
	87-A30-075-080		C-TR,2SA1235F	C505	87-012-273-080		C-CAP,U 820P-50 B<*EXP 523ALH>
	89-211-323-080		C-TR,2SB1132R				
	89-416-643-080		C-TR,2SD1664R	C505	87-012-276-080		C-CAP,U 1500P-50 B<523ALH>
	87-A30-076-080		C-TR,2SC3052F	C506	87-012-198-080		CAP 180P
	89-113-695-680		C-TR,2SA1369G/H	C507	87-012-273-080		C-CAP,U 820P-50 B
	87-A30-278-040		C-FET,2SK2980	C508	87-016-426-080		C-CAP,E 47-4 5.5N
	87-A30-287-040		C-TR,DTC114TKA	C509	87-012-281-080		C-CAP,U 3900P-50 B
	87-A30-282-040		C-TR,DTA114TKA				
	87-A30-377-040		C-TR,2SB815B7	C510	87-012-283-080		C-CAP,U 5600P-50 B
DIODE				C511	87-A11-228-080		C-CAP,U 0.027-25 K B
	87-A40-270-080		C-DIODE,MC2838	C512	87-016-429-080		C-CAP,E 100-4 5.5N
	87-017-520-080		C-DIODE,SFPB52	C513	87-A11-228-080		C-CAP,U 0.027-25 K B
	87-A40-570-080		C-ZENER,UDZ10B<*EXP 522AK,523ALH>	C514	87-A10-828-080		C-CAP,U 0.33-6.3 K B
	87-A40-590-040		C-DIODE,HRW0202A				
	87-A40-880-040		C-ZENER,UDZS 10B<522AK,523ALH>	C515	87-A10-260-080		C-CAP,U 0.1-16 K B
MAIN C.B				C516	87-012-180-080		C-CAP,U 22P-50 CH
C101	87-012-286-080		CAP, U 0.01-25	C517	87-012-180-080		C-CAP,U 22P-50 CH
C102	87-A11-031-080		C-CAP,E 100-16 M WX	C520	87-016-426-080		C-CAP,E 47-4 5.5N
C103	87-012-286-080		CAP, U 0.01-25	C521	87-012-274-080		CHIP CAP,U 1000P-50B
C104	87-016-430-080		C-CAP,E 100-6.3 5.5N				
C202	87-016-422-080		C-CAP,E 22-6.3	C522	87-A10-047-080		C-CAP,U 1-10 Z F
C203	87-012-286-080		CAP, U 0.01-25	C523	87-A10-047-080		C-CAP,U 1-10 Z F
C204	87-016-429-080		C-CAP,E 100-4 5.5N	C601	87-016-430-080		C-CAP,E 100-6.3 5.5N
C205	87-010-805-080		CAP, S 1-16	C602	87-012-286-080		CAP, U 0.01-25
C206	87-A12-159-080		C-CAP, 10-6.3 K B GRM42-6	C603	87-012-286-080		CAP, U 0.01-25
C207	87-A10-505-040		CAP,E 220-6.3 105 SF				
C208	87-016-426-080		C-CAP,E 47-4 5.5N	C701	87-016-429-080		C-CAP,E 100-4 5.5N
C209	87-010-831-080		C-CAP,U,0.1-16F	C702	87-012-335-080		C-CAP,U 270P-50 SL
C210	87-A10-047-080		C-CAP,U 1-10 Z F	C703	87-012-335-080		C-CAP,U 270P-50 SL
C211	87-010-787-080		CAP, U 0.022-25	C706	87-010-831-080		C-CAP,U,0.1-16F
C212	87-012-266-080		C-CAP,U 220P-50 B	C707	87-A10-047-080		C-CAP,U 1-10 Z F
C213	87-010-805-080		CAP, S 1-16				
C303	87-010-831-080		C-CAP,U,0.1-16F	C708	87-A10-047-080		C-CAP,U 1-10 Z F
C304	87-010-831-080		C-CAP,U,0.1-16F	C709	87-A10-047-080		C-CAP,U 1-10 Z F
C305	87-012-286-080		CAP, U 0.01-25	C710	87-016-421-080		C-CAP,E 10-16 5.5N
C306	87-012-286-080		CAP, U 0.01-25	C711	87-016-422-080		C-CAP,E 22-6.3
C307	87-012-286-080		CAP, U 0.01-25	C715	87-016-421-080		C-CAP,E 10-16 5.5N
C309	87-016-429-080		C-CAP,E 100-4 5.5N				
C310	87-010-831-080		C-CAP,U,0.1-16F	C716	87-010-831-080		C-CAP,U,0.1-16F
C401	87-016-429-080		C-CAP,E 100-4 5.5N	C717	87-010-831-080		C-CAP,U,0.1-16F
C402	87-010-831-080		C-CAP,U,0.1-16F	C718	87-016-431-080		C-CAP,E 220-4 5.5N
C403	87-016-431-080		C-CAP,E 220-4 5.5N	C719	87-016-431-080		C-CAP,E 220-4 5.5N
C405	87-A10-260-080		C-CAP,U 0.1-16 K B	C720	87-012-274-080		CHIP CAP,U 1000P-50B
C406	87-012-271-080		CAP, U 560P-50				
C407	87-010-787-080		CAP, U 0.022-25	C721	87-012-274-080		CHIP CAP,U 1000P-50B
C408	87-A10-260-080		C-CAP,U 0.1-16 K B	CN301	87-A60-792-080		C-CONN,30P V 30FLT-SM1TB
C409	87-A10-827-080		C-CAP,U 0.47-6.3 K B	CN501	87-009-214-080		CONN,16P 52207-1690
C410	87-012-286-080		CAP, U 0.01-25	CN601	87-099-522-080		CONN,6P ZH-SM3 V W
C411	87-010-831-080		C-CAP,U,0.1-16F	FB702	83-XM1-617-080		C-COIL,BK2125HM601
C412	87-016-429-080		C-CAP,E 100-4 5.5N	FB703	83-XM1-617-080		C-COIL,BK2125HM601
C413	87-010-831-080		C-CAP,U,0.1-16F	FB705	83-XM1-617-080		C-COIL,BK2125HM601
C415	87-010-831-080		C-CAP,U,0.1-16F	FFC301	8B-HC4-605-010		FF-CABLE,30P 0.5 45MM
C417	87-012-188-080		C-CAP,U 47P-50 CH	J101	87-A61-447-010		JACK,DC DJ26B BLK 6
C418	87-012-184-080		C-CAP,U 33P-50 CH	J701	87-A61-446-010		JACK,3.5 GRN ST W/REM
				L201	87-A50-355-080		C-COIL,330UH LQH3C
				L202	87-A50-330-080		C-COIL,100UH-D75C
				L203	87-A50-355-080		C-COIL,330UH LQH3C
				L302	87-A50-367-080		C-COIL, 10UH LQG21F
				L401	87-A50-367-080		C-COIL, 10UH LQG21F
				L402	87-A50-012-080		C-COIL,100UH LQH3C
				L501	87-A50-367-080		C-COIL, 10UH LQG21F
				L502	87-A50-367-080		C-COIL, 10UH LQG21F
				S101	87-A92-085-010		SW,MICRO ESE11SV1
				S302	87-A90-494-080		C-SW,SL 1-1-3 SSSS81
				S303	87-A90-494-080		C-SW,SL 1-1-3 SSSS81
				VR701	87-A92-142-010		C-VR,RTRY 30KCK2 H K142R0Z0J
				X401	87-A70-202-080		C-VIB,CER 16.93MHZ CSACV-MXJ04

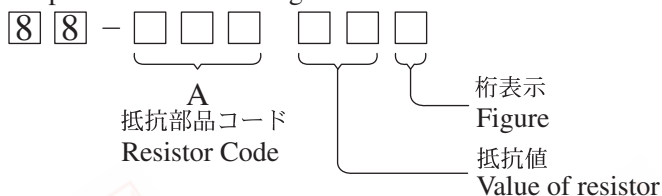
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
FRONT C.B			
C802	87-012-274-080		CHIP CAP,U 1000P-50B
C803	87-010-831-080		C-CAP,U,0.1-16F
CN801	87-A60-791-080		C-CONN,30P H FLZ-RSM1TB
LCD801	8A-HC5-621-010		LCD,AHC-5 REFLEX
S801	87-A91-668-080		C-SW,TACT EVQ-PQH-B55
S802	87-A91-668-080		C-SW,TACT EVQ-PQH-B55
S803	87-A91-668-080		C-SW,TACT EVQ-PQH-B55
S804	87-A91-668-080		C-SW,TACT EVQ-PQH-B55
S805	87-A91-668-080		C-SW,TACT EVQ-PQH-B55
S806	87-A91-668-080		C-SW,TACT EVQ-PQH-B55
S807	87-A91-668-080		C-SW,TACT EVQ-PQH-B55

*NOTE: EXP= EXCEPT


チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

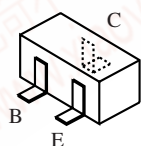
Chip Resistor Part Coding



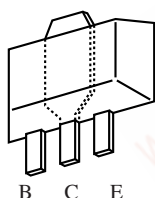
チップ抵抗 Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

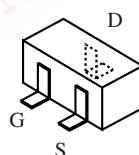
TRANSISTOR ILLUSTRATION



2SA1235F
2SB815B7
2SC3052F
DTA114TKA
DTC114TKA
DTC123JKA

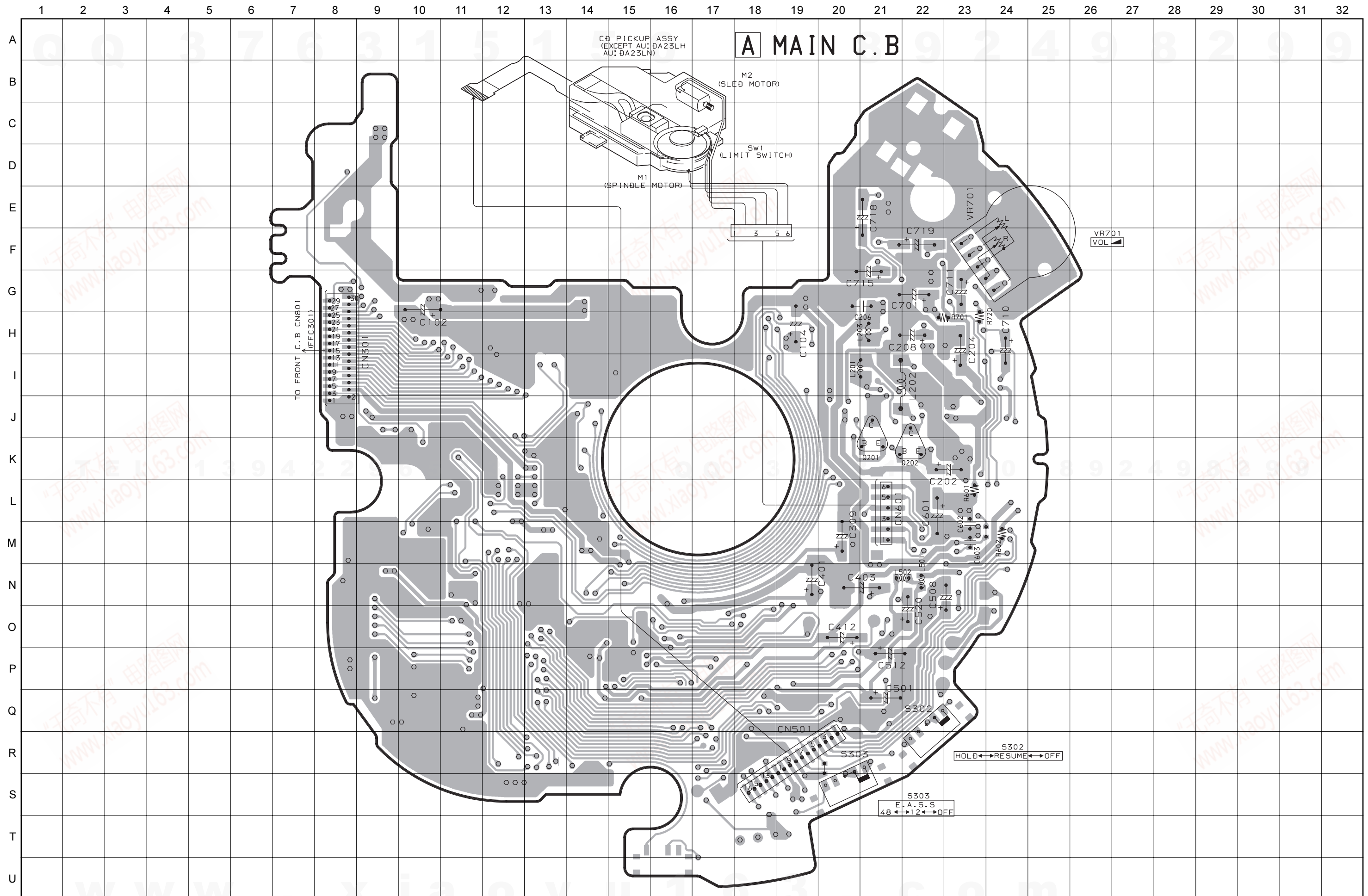


2SA1369G/H
2SB1132R
2SD1664R

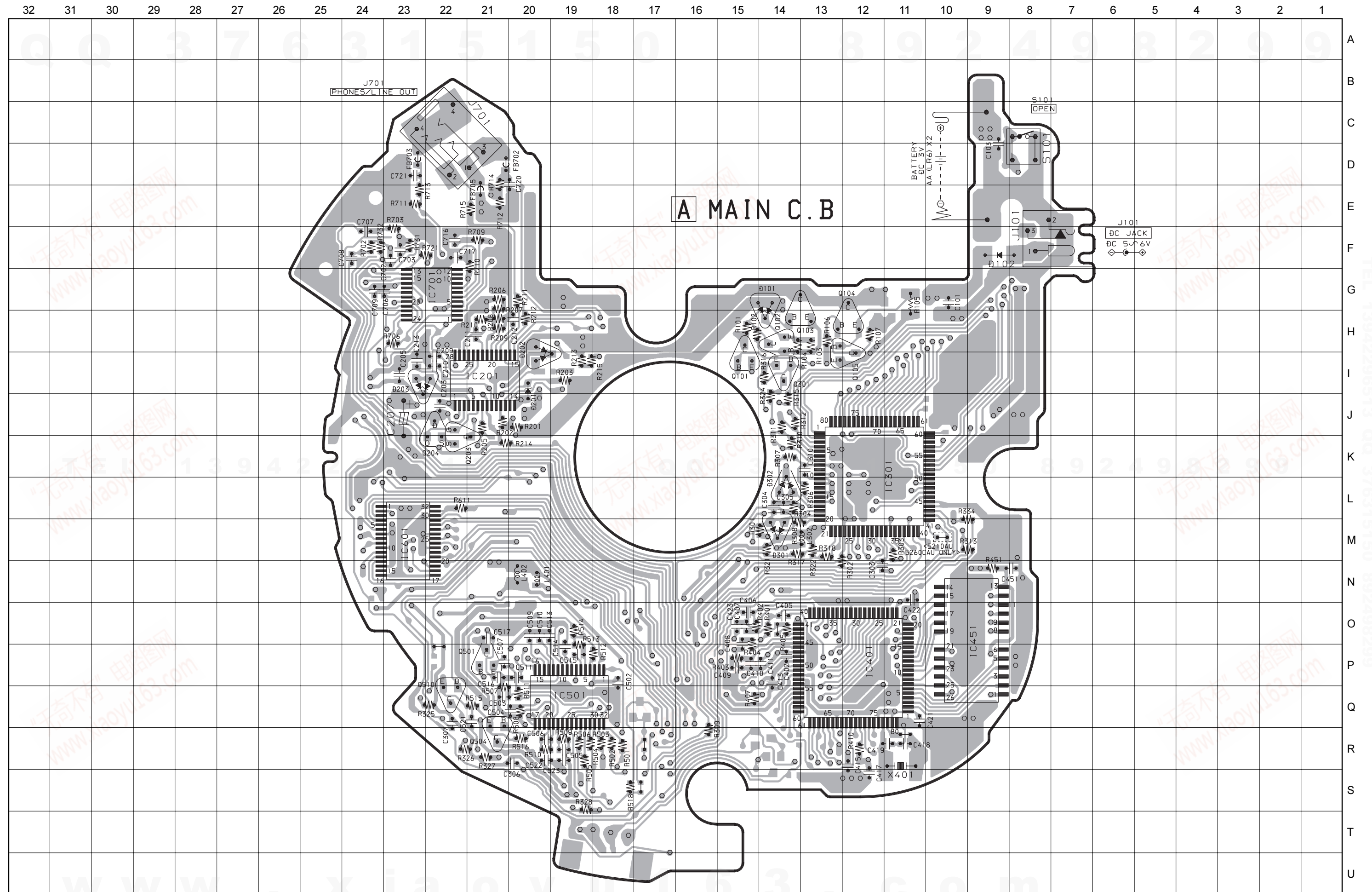


2SK2980

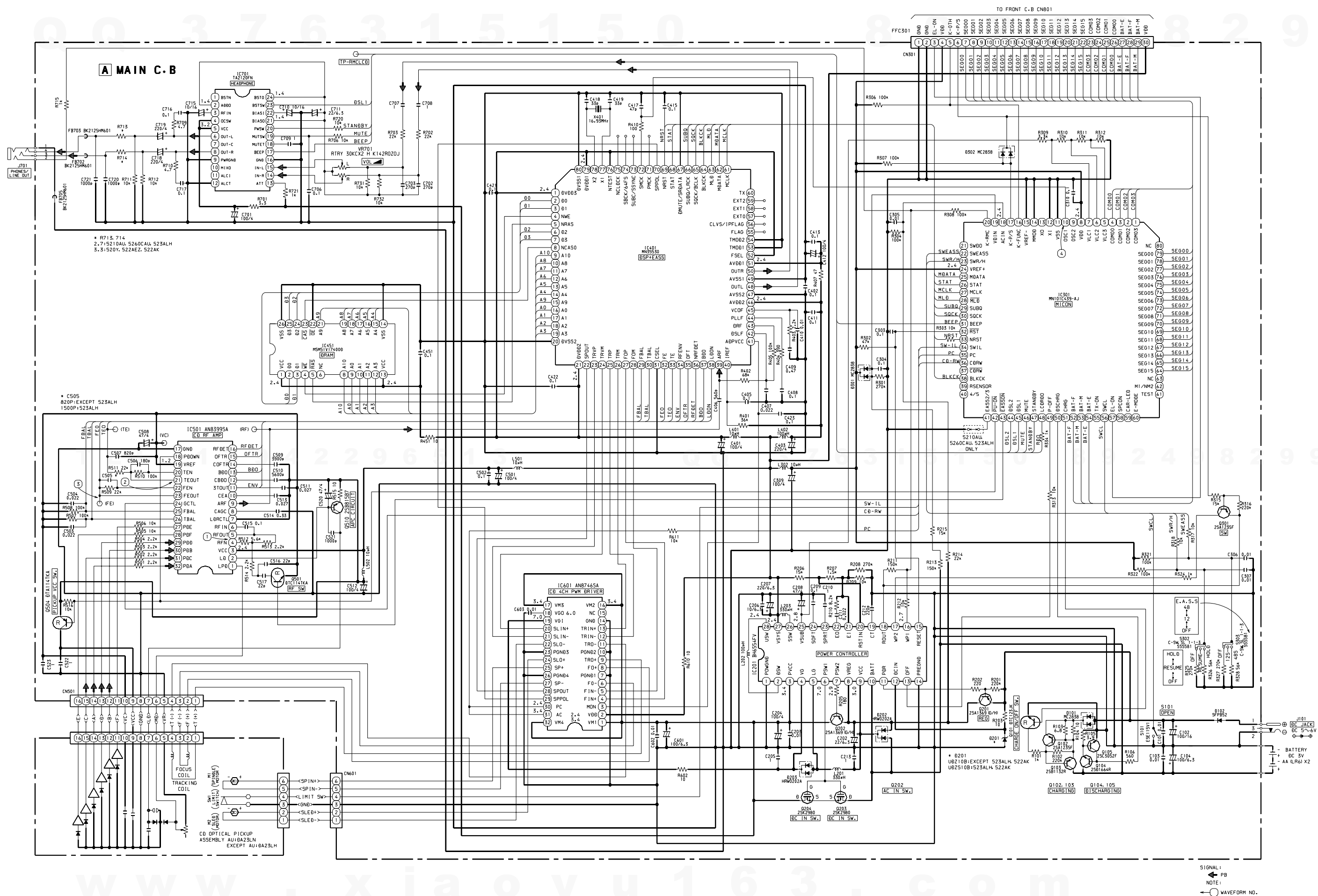
WIRING - 1 (MAIN) <1/2>



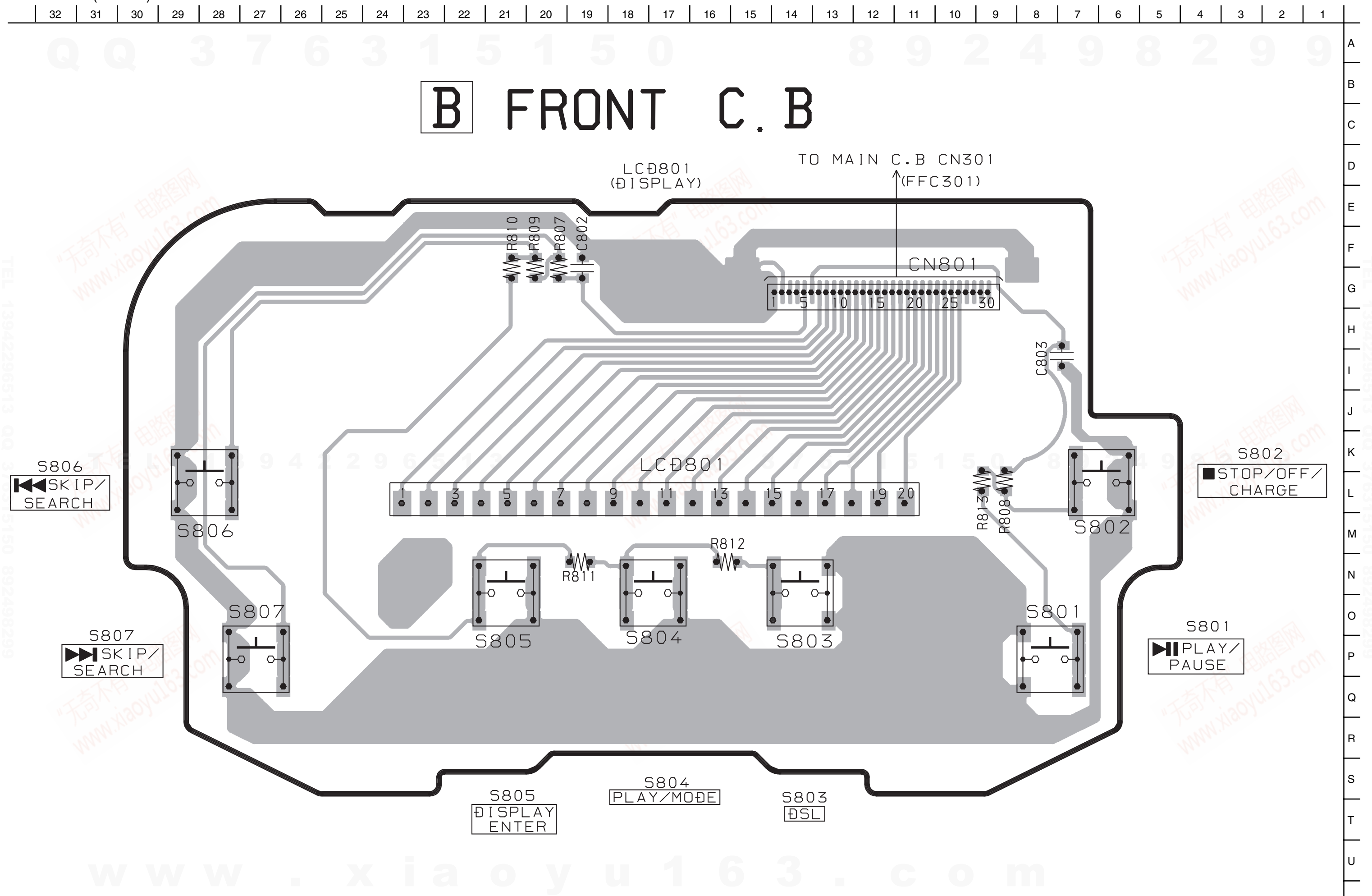
WIRING - 1 (MAIN) <2 / 2>



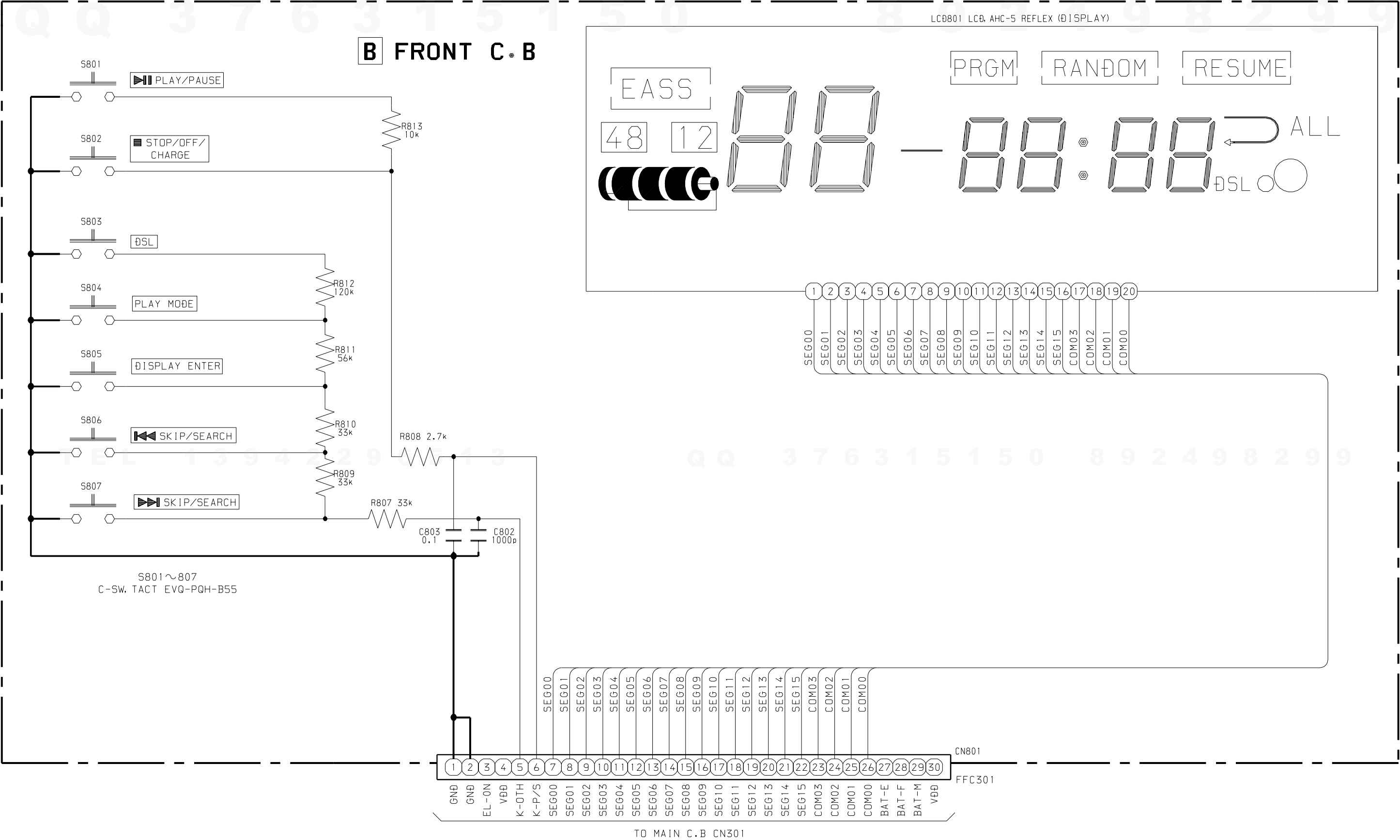
SCHEMATIC DIAGRAM – 1 (MAIN)



WIRING - 2 (FRONT)

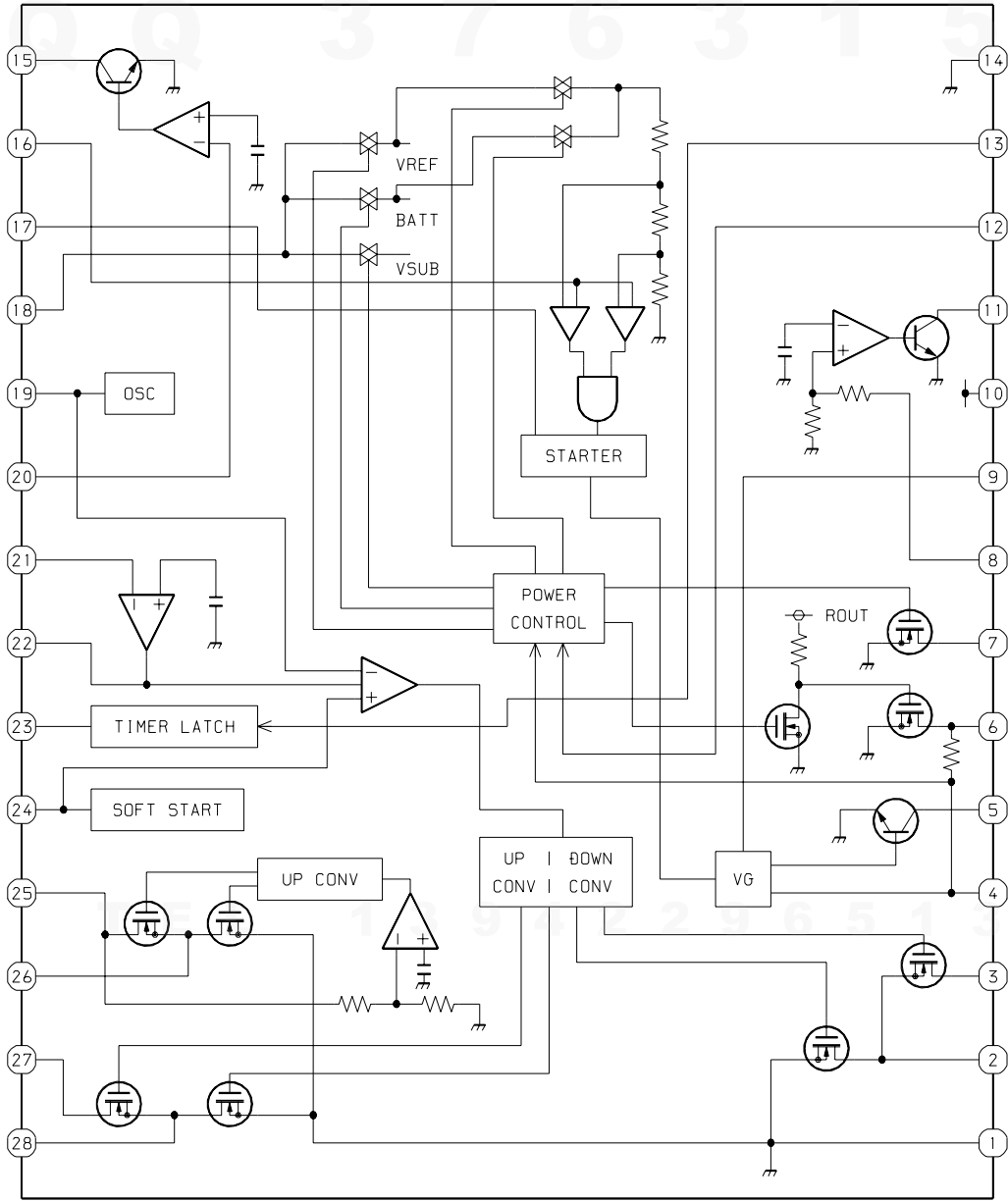


SCHEMATIC DIAGRAM – 2 (FRONT)

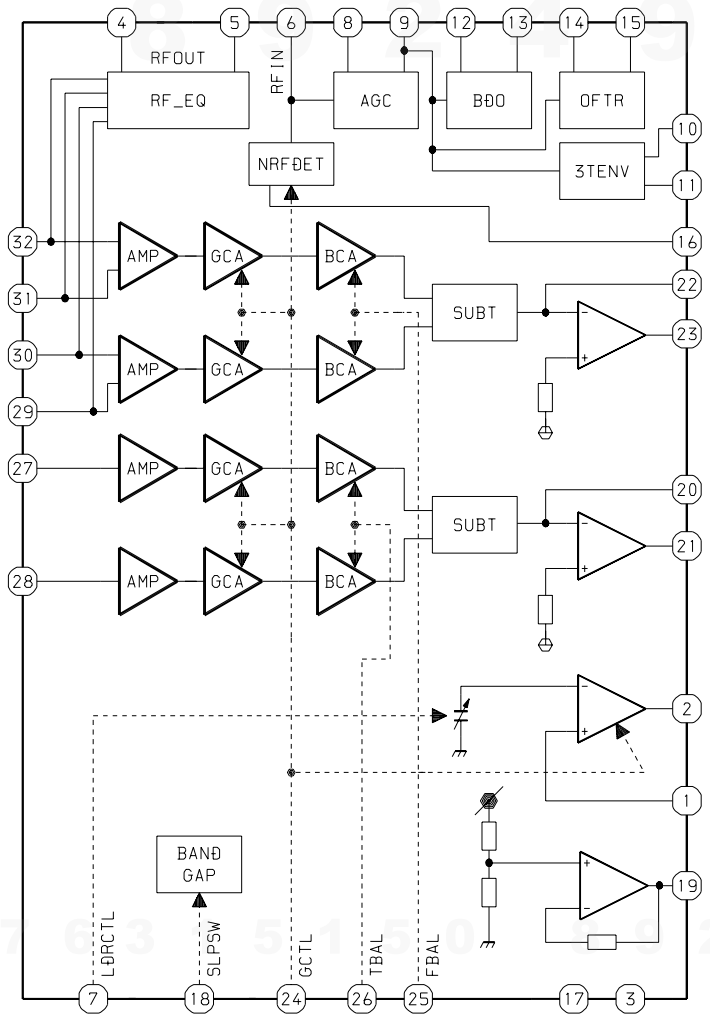


IC BLOCK DIAGRAM

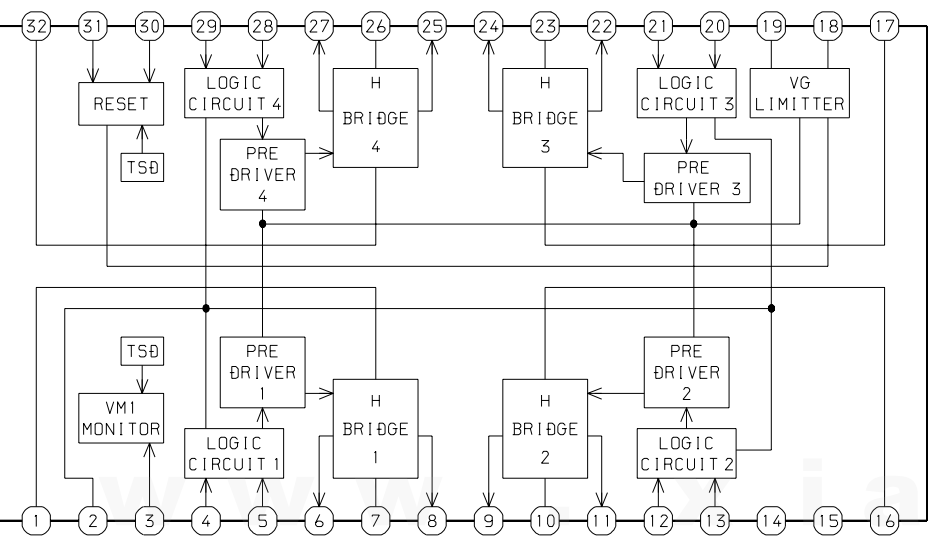
IC, BH6554FV



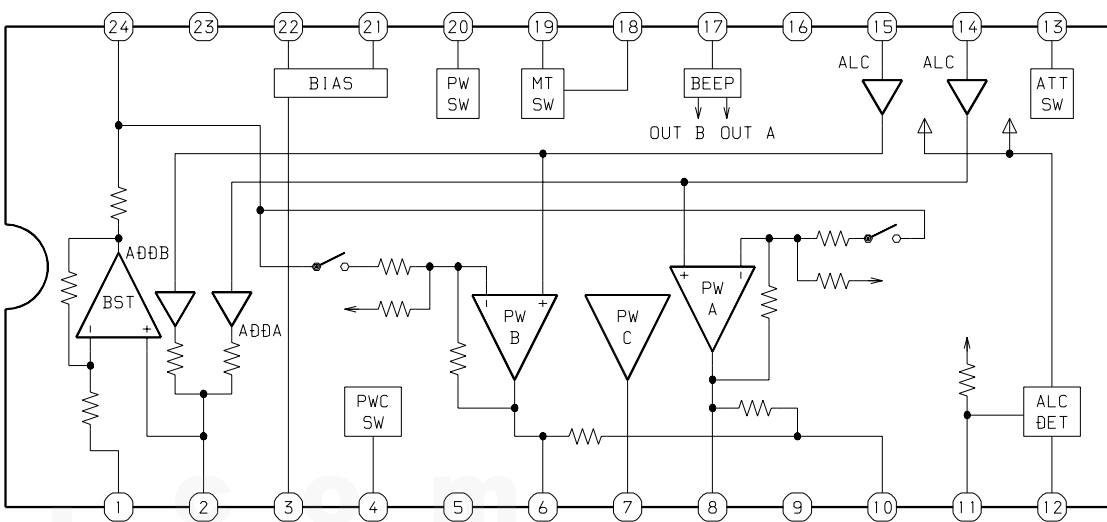
IC, AN8399SA



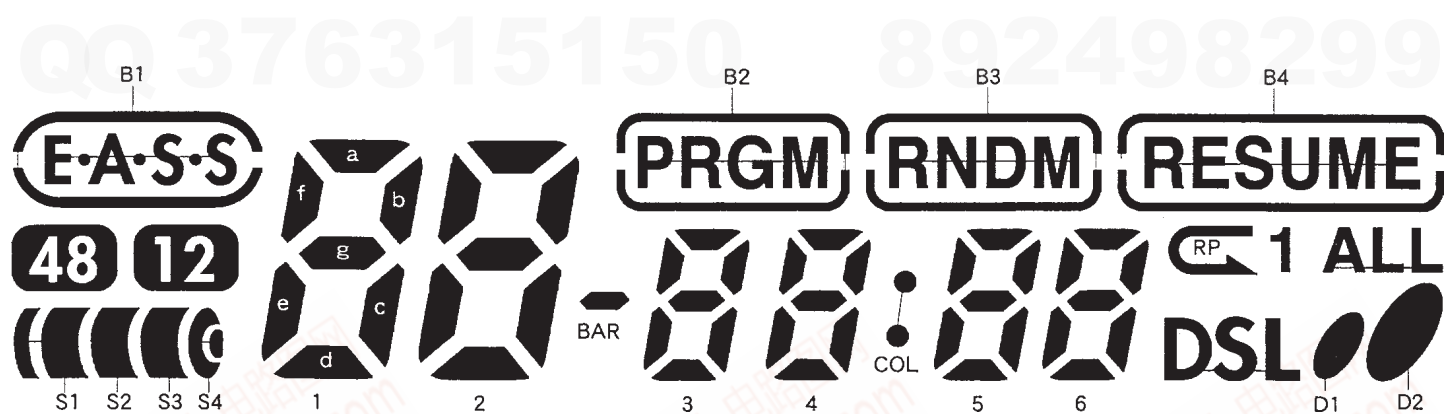
IC, AN8746SA



IC, TA2120FN



LCD DISPLAY



No	1	2	3	4	5	6	7	8	9	10
COM0	S2	B1	RNDM	1a	PRGM	2a	BAR	3a	B2	4a
COM1	S1	E·A·S·S	1f	1b	2f	2b	3f	3b	4f	4b
COM2	S3	48	1e	1g	2e	2g	3e	3g	4e	4g
COM3	S4	12	1d	1c	2d	2c	3d	3c	4d	4c

No	11	12	13	14	15	16	17	18	19	20
COM0	COL	5a	B3	6a	B4	RESUME	---	---	---	COM0
COM1	5f	5b	6f	6b	1	ALL	---	---	COM1	---
COM2	5e	5g	6e	6g	RP	D2	---	COM2	---	---
COM3	5d	5c	6d	6c	DSL	D1	COM3	---	---	---

IC DESCRIPTION

IC, MN101C439-AJ

Pin No.	Pin Name	I/O	Description
1	COM03	O	LCD common output.
2	COM02	O	LCD common output.
3	COM01	O	LCD common output.
4	COM00	O	LCD common output.
5	VLC3	-	LCD drive voltage setting terminal.
6	VLC2	-	LCD drive voltage setting terminal.
7	VLC1	-	LCD drive voltage setting terminal.
8	VDD	-	LCD power.
9	OSC2	O	Micon main clock oscillator output. (Not used)
10	OSC1	O	Micon main clock oscillator output.
11	VSS	-	GND.
12	XI	I	Sub clock oscillator.(Connected to GND)
13	XO	O	Sub clock oscillator. (Not used)
14	MMOD	I	Processor mode unused.(Connected to GND)
15	VREF-	-	Connected to GND.
16	K-FUNC	I	"FUNCTION" key input.
17	K-P/S	I	"PLAY" and "STOP" key inputs.
18	ACIN	I	AC adaptor detection.
19	VDIN	I	Main clock (8 MHz).
20	K-RMC	I	Wired remote control input.
21	SWDO	I	Digital out "ON/OFF" input. ON at "L".(Not used)
22	SWEASS	I	EASS mode selection input. Refer to A/D table.
23	SWR/H	I	Resume/Hold switch input.
24	VREF+	-	Connected to VDD.
25	MDATA	O	DSP MDATA output.
26	STAT	I	DSP STAT input.
27	MCLK	O	DSP MCLK output.
28	MLD	O	DSP MLD output.
29	SUBQ	O	Power down output for H/A.
30	SQCK	O	Selection output for EASS gain control. EASS at "L".
31	BEEP	O	Buzzer output for headphone.
32	$\overline{\text{RST}}$	I	Micro computer reset input.
33	NRST	O	DSP reset output.
34	SWIL	I	Limited switch input.
35	PC	O	Power off output for CD server driver. Power off at "L".
36	CDRW	O	CD RW play gain level selection output. Gain set at "H".
37	$\overline{\text{CDRW}}$	O	CD RW play gain level selection output. Gain set at "L". (Not used)
38	BLKCK	I	DSP BLKCK input.
39	RSensor	I	Wireless remote control sensor signal input. (Not used)
40	4/5	I	Not used.
41	EASS 2/3	-	Connected to ground.

Pin No.	Pin Name	I/O	Description
42	PU-ON	O	H/A power down output.
43	EASSON	O	EASS gain up selection output. EASS ON at "L".
44	DSL2	O	Headphone DSL2 control output. DSL2 at "H". DSL1/OFF at "L".
45	DSL1	O	Headphone DSL ON control output. DSL ON at "H".
46	MUTE	O	Audio mute output.
47	STANDBY	O	Headphone standby output. Standby at "L". Power ON at "H".
48	LCDRDO	O	Wired LCD remote control output. (Not used)
49	P-OFF	O	Power IC power off output. Power OFF at "L".
50	DSCHRG	O	Discharge output.
51	CHRG	O	Charge output.
52	BAT-F	O	Battery balance full indication LED output. (Not used)
53	BAT-M	O	Battery balance medium indication LED output. (Not used)
54	BAT-E	O	Battery balance empty indication LED output. (Not used)
55	TX-ON	-	Not used.
56	SWCL	I	Cover open/close detection switch input.
57	EL-ON	O	EL back light control output.
58	SPCON	O	Spindle PWM control output. (Not used)
59	CAR-LED	O	CAR-KIT model button LED light output. (Not used)
60	E-MODE	I	Shaft damage mode (No shaft damage mode found at "H"). (Not used)
61	TEST	I	Enter test mode at "L". (Not used)
62	M1/NM2	I	10 or 10/40 sec selection input. 10 sec at "H", 10/40 sec at "L". (Not used)
63	NC	-	Not connected.
64	SEG15	O	LCD segment output.
65	SEG14	O	LCD segment output.
66	SEG13	O	LCD segment output.
67	SEG12	O	LCD segment output.
68	SEG11	O	LCD segment output.
69	SEG10	O	LCD segment output.
70	SEG09	O	LCD segment output.
71	SEG08	O	LCD segment output.
72	SEG07	O	LCD segment output.
73	SEG06	O	LCD segment output.
74	SEG05	O	LCD segment output.
75	SEG04	O	LCD segment output.
76	SEG03	O	LCD segment output.
77	SEG02	O	LCD segment output.
78	SEG01	O	LCD segment output.
79	SEG00	O	LCD segment output.
80	NC	-	Not connected.

A/D TABLE

HEX	K-FUNC (PIN 16)	SWEASS (PIN 22)	SWR/H (PIN 23)	K-P/S (PIN 17)
E8 ~ FF	OFF	EASS ON	RESUME	OFF
CB ~ E8	NOT USED	OFF	OFF	PLAY
AD ~ CA	DSL	OFF	OFF	PLAY
90 ~ AC	MODE	OFF	OFF	PLAY
71 ~ 8F	ENTER	OFF	HOLD/RESUME	PLAY
53 ~ 70	B.S	OFF	HOLD/RESUME	STOP
35 ~ 52	F.S	OFF	HOLD/RESUME	STOP
17 ~ 34	NOT USED	OFF	OFF	STOP
1 ~ 16	OFF	OFF	OFF	OFF

A/D TABLE

HEX	K-RMC (PIN 20)
E8 ~ FF	OFF
BB ~ E8	NOT USED
89 ~ BA	DSL
5F ~ 88	PLAY
42 ~ 5E	MODE
2E ~ 41	STOP
1F ~ 2D	B.S
0B ~ 1E	F.S
00 ~ 0A	OFF

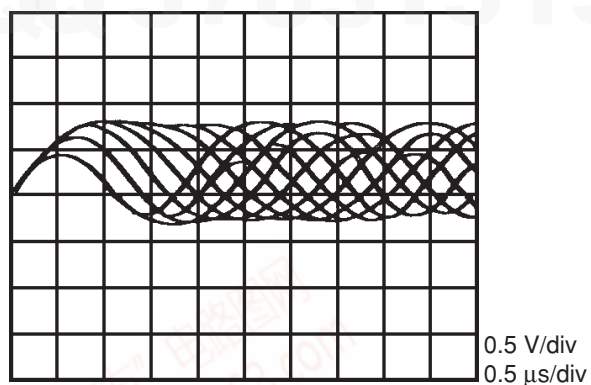
IC, MN35530

Pin No.	Pin Name	I/O	Description
1	DVDD3	-	Power supply for DRAM interface.
2	D0	I/O	Input/Output data 0 for DRAM.
3	D1	I/O	Input/Output data 1 for DRAM.
4	NWE	O	Output write enable signal for DRAM.
5	NRAS	O	Output RAS control signal for DRAM.
6	D2	I/O	Input/Output data 2 for DRAM.
7	D3	I/O	Input/Output data 3 for DRAM.
8	NCAS0	O	Output CAS control signal 0 for DRAM.
9	A10	O	Output address signal 10.
10 ~ 14	A8 ~ A4	O	Output address signal 8 ~ 4.
15	A9	O	Output address signal 9.
16 ~ 19	A0 ~ A3	O	Output address signal 0 ~ 3.
20	DVSS2	-	Ground for digital circuit.
21	DVDD2	-	Power supply for digital circuit.
22	SPOUT	O	PWM output of spindle.
23	TRVP	O	PWM output of positive traverse signal.
24	TRVM	O	PWM output of negative traverse signal.
25	TRP	O	PWM output of positive tracking signal.
26	TRM	O	PWM output of negative tracking signal.
27	FOP	O	PWM output of positive focus signal.
28	FOM	O	PWM output of negative focus signal.
29	FBAL	O	Output for focus balance adjustment.
30	TBAL	O	Output for tracking balance adjustment.
31	CSEL	-	Reference voltage for DA output (TRVP, TRP, FOM, FOP, FBAL, TBAL, DSLF2).
32	FE	I	Focus error signal input (analog input).
33	TE	I	Tracking error signal input (analog input).
34	RFENV	I	RF envelope signal input (analog input).
35	OFT	I	Off track signal input. "H" : Off track.
36	NRFDET	I	RF detection signal input. "L" : Detect.
37	BDO	I	Drop out signal input. "H" : Drop out.
38	LDON	O	Laser ON signal output. "H" : ON.
39	ARF	I	RF signal input.
40	IREF	I	Reference current input terminal.
41	ADPVCC	-	Reference voltage level for PWM output drive.
42	DSLF	O	Loop filter terminal for DSL.
43	DRF	I	DSL input.
44	PLLF	O	Loop filter terminal for PLL.
45	VCOF	O	Loop filter terminal for pitch controller and jitter free VCO.
46	AVDD2	-	Power supply for analog circuit (DSL, PLL, VCOF, AD, DA).
47	AVSS2	-	Ground for analog circuit (DSL, PLL, VCOF, AD, DA).
48	OUTL	O	Output Lch audio.

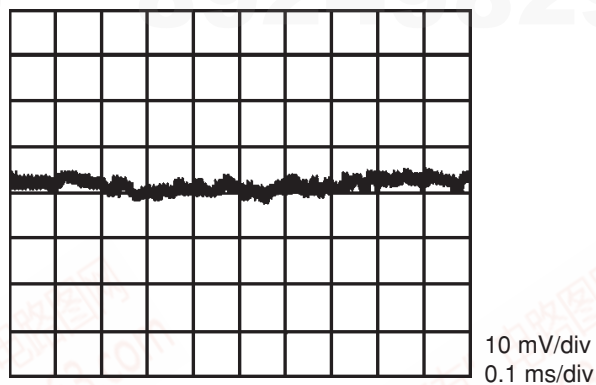
Pin No.	Pin Name	I/O	Description
49	AVSS1	-	Ground for analog circuit. (For audio output)
50	OUTR	O	Output Rch audio.
51	AVDD1	-	Power supply for analog circuit. (For audio output)
52	FSEL	I	Input noise filter ON / OFF switching. "L" : ON. "H" : OFF.
53	TMOD1	I	Terminal mode switching input 1. (Connected to GND)
54	TMOD2	I	Terminal mode switching input 2. (Connected to GND)
55	FLAG	O	Flag signal output. (Not used)
56	CLVS/IPFLAG	-	Not used.
57 ~ 59	EXT 0 ~ 2	I/O	Expansion input / output port 0 ~ 2. (Not used)
60	TX	O	Digital audio interface output signal. (Not used)
61	MCLK	I	Microcomputer command clock signal input (latch data at rising edge).
62	MDATA	I	Microcomputer command data signal input.
63	MLD	I	Microcomputer command load signal input. "L" : Load.
64	BLKCK	I	Input sub code block clock signal (fBLKCK = 75kHz) / Input SYNC signal for CDTEXT (fDQSY = 300kHz).
65	SQCK/BCLK	I	Input clock for sub code Q register.
66	SUBQ/LRCK	O	Output sub code Q data.
67	DMUTE/SRDATA	I	Input mute. "H" : Mute. (Connected to GND)
68	STAT	O	Output status signal (CRC,RESY,CLVS,NTTSTOP,SQOK,FLAG6,SENSE,NFLOCK,NTLOCK,BSEL,SUBQDATA,CDTEXT DATA,ANT-SHOCK READ OUT DATA.)
69	NRST	I	Input reset. "L" : Reset.
70	SPPOL	O	PWM output of spindle signal drive.
71	PMCK	O	88.2kHz clock signal output.(Not used)
72	SMCK	O	4.2336MHz clock signal output.
73	SUBC/SSYNC	O	Output sub code serial. (Not used)
74	SBCK/64FS	I	Input clock for subcode serial. (Not used)
75	NCLDCK	O	Sub code frame clock signal output (fCLDCK = 7.35kHz). (Not used)
76	NTEST	-	Test terminal.(connected to power supply)
77	X1	I	Crystal oscillator circuit input terminal (f = 16.93MHz).
78	X2	O	Crystal oscillator circuit output terminal (f = 16.93MHz).
79	DVDD1	-	Power supply for digital circuit.
80	DVSS1	-	Ground for digital circuit.

WAVEFORM

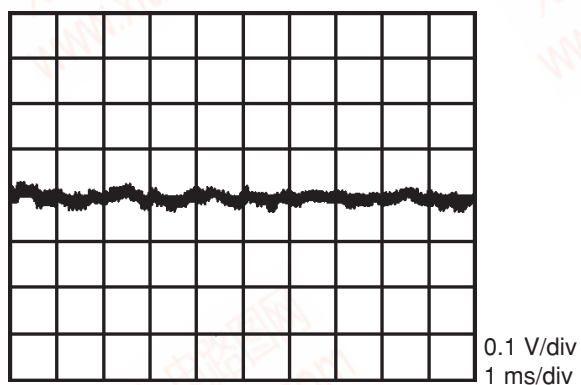
① IC501 PIN 4 (RFN)



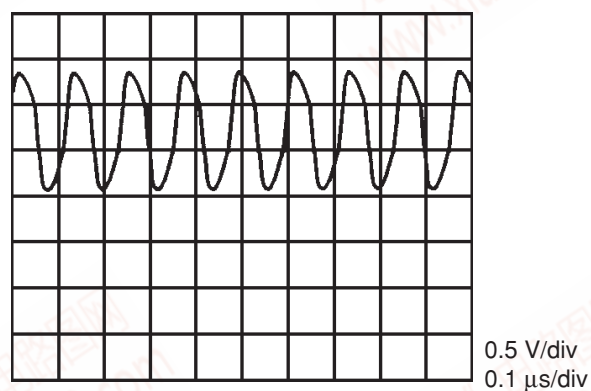
③ IC501 PIN 23 (FEOUT)



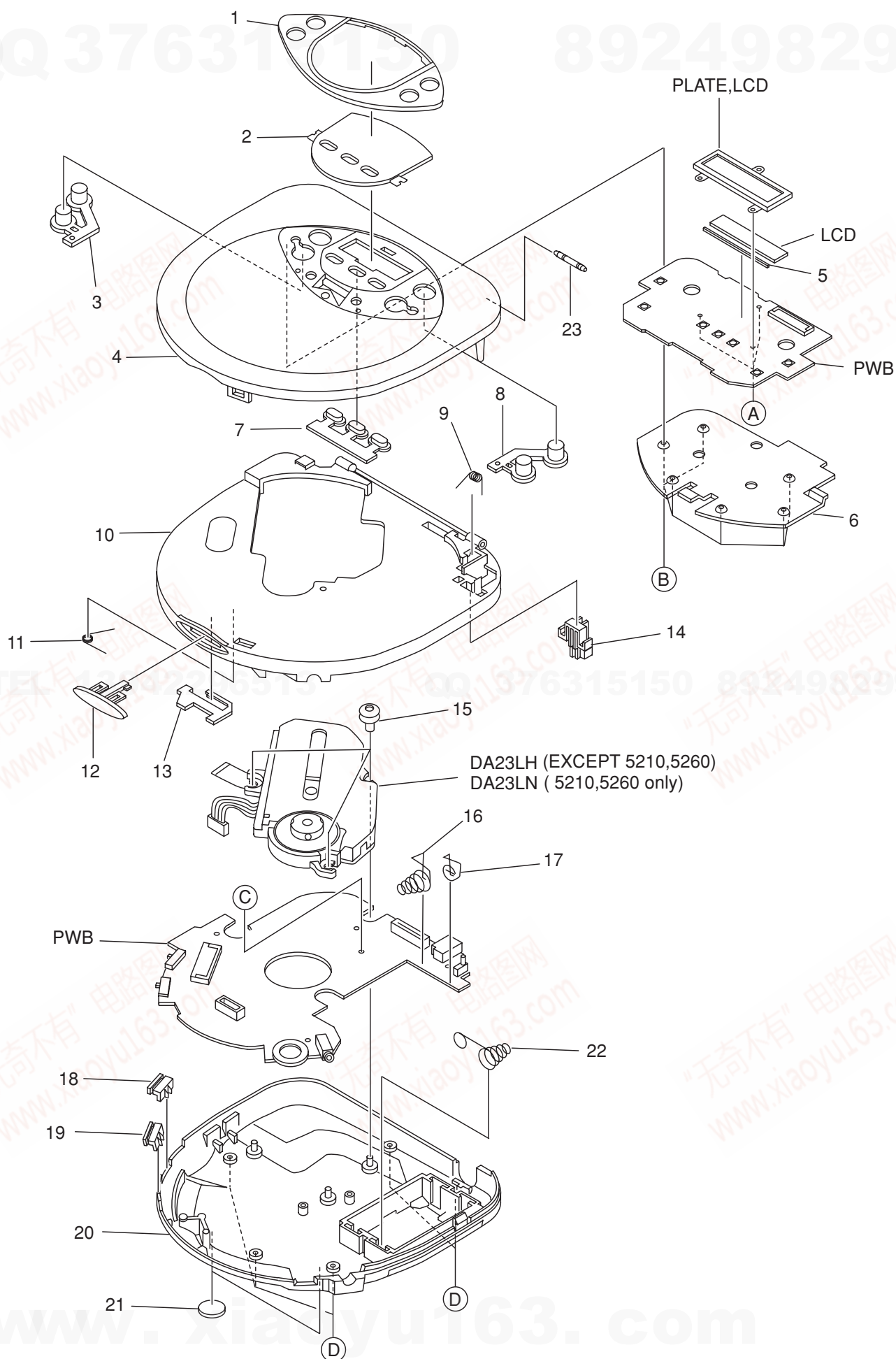
② IC501 PIN 21 (TEOUT)



④ IC301 PIN 10 (OSC1)



MECHANICAL EXPLODED VIEW 1 / 1



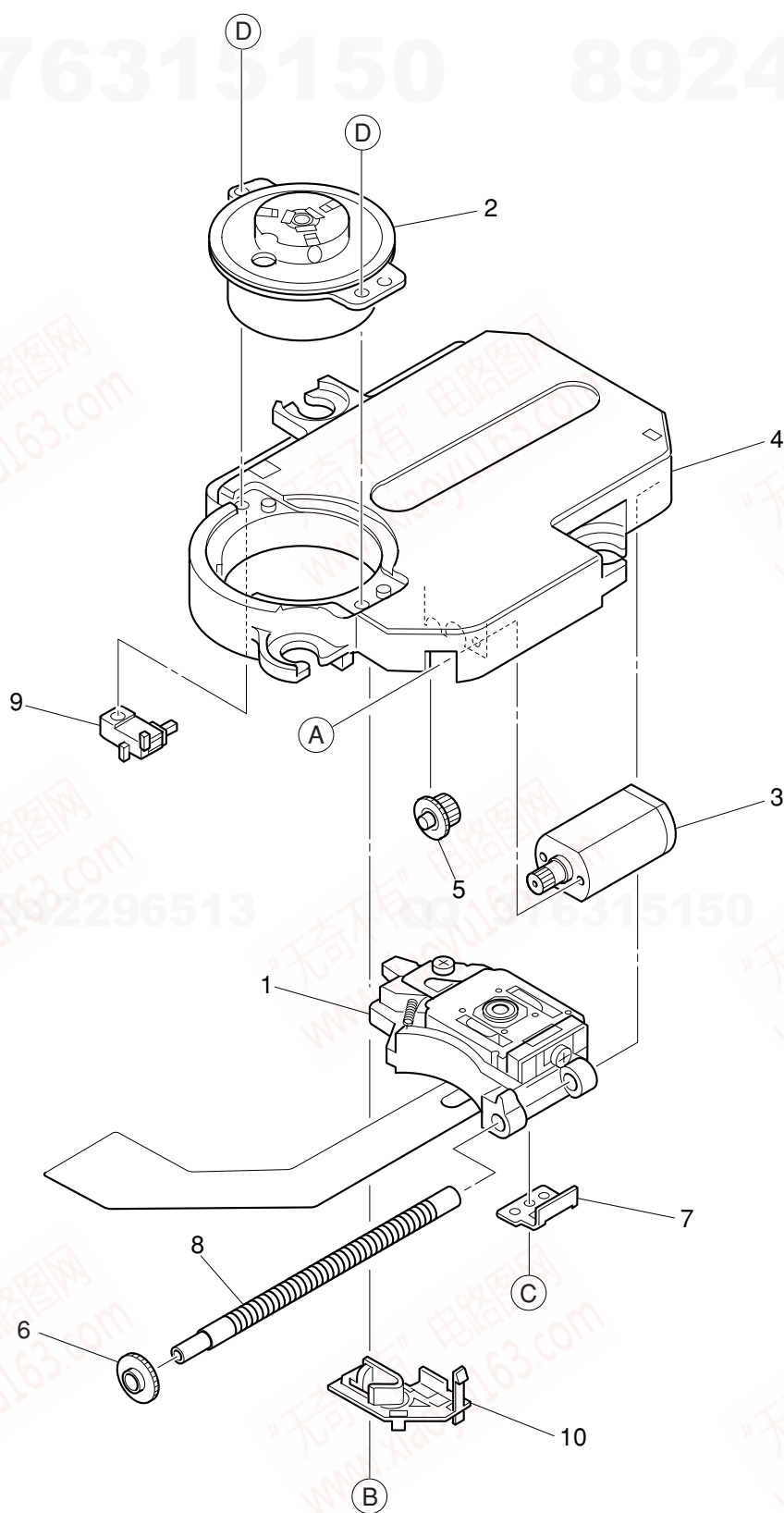
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-HC5-007-010		PANEL, DISPLAY
2	8B-HC5-006-010		WINDOW, DISPLAY<520Y1SF>
2	8B-HC5-016-010		WINDOW, DISPLAY 521<521AEZ1SF>
2	8B-HC5-031-010		WINDOW, DISPLAY 5210<5210AUBSF>
2	8B-HC5-017-010		WINDOW, DISPLAY 522<522AK1SF, 522AEZ1SF>
2	8B-HC5-018-010		WINDOW, DISPLAY 523<523ALH1SF, 523ALH1BSF>
2	8B-HC5-032-010		WINDOW, DISPLAY 5260C<5260CAUBSF, 5260CAUB4SF>
3	8B-HC5-010-010		KEY, SKIP
4	8B-HC5-001-010		LID, CD<EXCEPT 5210AUBSF, 5260CAUBSF, 5260CAUB4SF>
4	8B-HC5-014-010		LID, CD U<5210AUBSF, 5260CAUBSF, 5260CAUB4SF>
5	8A-HC5-202-010		JOINT, LCD AHC5
6	8B-HC5-008-010		HLD, LID CD
7	8B-HC5-011-010		KEY, MODE
8	8B-HC5-009-010		KEY, PLAY
9	8B-HC4-203-010		SPR-T, OPEN
10	8B-HC4-002-010		CABI, CENTER
11	8B-HC4-204-010		SPR-T, KNOB
12	8B-HC4-011-010		KNOB, SL OPEN
13	8B-HC4-205-010		LEVER, OPEN
14	8B-HC4-016-010		HLD, OPEN
15	8Z-HC1-225-010		DMPR, MECHA (SP)
16	8B-HC4-202-010		BAT-CONTACT, (-)
17	8B-HC4-201-010		BAT-CONTACT, (+)
18	8B-HC4-013-010		KNOB, SL EASS
19	8B-HC4-012-010		KNOB, SL HOLD
20	8B-HC4-005-010		CABI ASSY, BOTTOM
21	8Z-HC4-027-010		FOOT, DIA10
22	8Z-HC7-216-010		BAT-CONTACT, (+) (-) (SP)
23	8B-HC4-208-010		SHAFT, LID (15.8)
A	87-067-736-010		SCREW, 1.4-2 BLK NLOCK
B	87-067-732-010		TAPPING SCREW, VT1.4-3
C	87-067-868-010		V+1.7-4 HL BLK
D	87-067-869-010		V+1.7-8 HL BLK

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green		

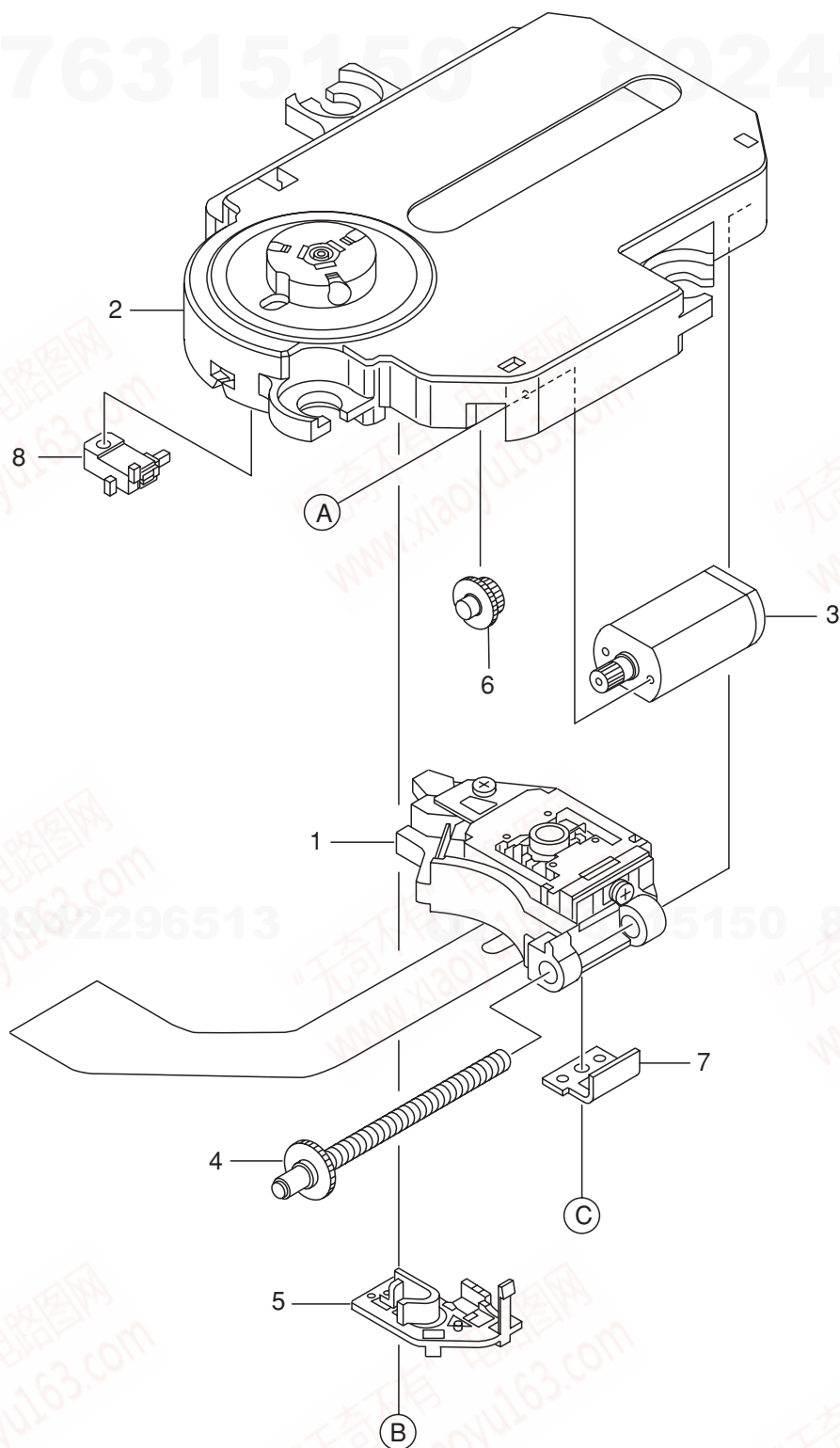
CD MECHANISM EXPLODED VIEW 1 / 1 (DA23LN)



CD MECHANISM PARTS LIST 1 / 1 (DA23LN)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S0-A41-A20-604		PICKUP ASSY LASER P200L
2	S0-M10-A10-800		MOTOR SPINDLE ASSY
3	S0-M10-A10-900		MOTOR SLED ASSY
4	S2-311-A12-200		CHASSIS
5	S2-511-A23-200		GEAR MIDDLE
6	S2-511-A23-100		GEAR, SCREW
7	S2-511-A23-400		GEAR, RACK
8	S2-511-A07-901		SPINDLE SCREW
9	S4-S13-A00-200		SW, LEAF
10	S2-451-A18-100		HOLDER GEAR
A	SS-EXE-A04-000		SCR PAN PCS 1.4-2.2
B	SS-GXE-A00-301		SPECIAL SCREW M1.7-6.0
C	SS-EXE-A14-100		SPECIAL SCREW
D	SS-GXE-A00-202		SPECIAL SCREW M1.7-4.0

CD MECHANISM EXPLODED VIEW 1 / 1 (DA23LH)



CD MECHANISM PARTS LIST 1 / 1 (DA23LH)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S0-A41-A20-600		PICKUP LASER ASSY
2	S0-M10-A13-500		MOTOR ASSY SPDL LH
3	S0-M10-A10-900		MOTOR SLED ASSY
4	S0-551-A00-900		SPINDLE ASSY SCREW
5	S2-451-A18-100		HOLDER GEAR
6	S2-511-A23-200		GEAR MIDDLE
7	S2-511-A23-400		GEAR, RACK
8	S4-S13-A00-200		SW, LEAF
A	SS-EXE-A04-000		SCR PAN PCS 1.4-2.2
B	SS-GXE-A00-300		SPECIAL SCREW
C	SS-GXE-A14-100		SPECIAL SCREW

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-YK1-001-410		ADAPTOR,CAP-6<5260CAU>
1	86-YK1-002-210		ADAPTOR,DC-602<5260CAU>
2	87-B30-422-010		HEADPHONE,HP-M061<5210AU,5260CAU>
2	87-B30-423-010		HEADPHONE,HP-M062<520Y,522AK,522AEZ,521AEZ>
2	87-B30-420-010		HEADPHONE,HP-MR059<523ALH>
3	8B-HC5-915-010		IB,EZ(EGF)S V521<521AEZ>
3	8B-HC5-905-010		IB,EZ(EGF)S V522/523<522AK,522AEZ>
3	8B-HC5-917-010		IB,EZ(PHNCZ)S V521<521AEZ>
3	8B-HC5-907-010		IB,EZ(PHNCZ)S V522/523<522AEZ>
3	8B-HC5-916-010		IB,EZ(SID)S V521<521AEZ>
3	8B-HC5-906-010		IB,EZ(SID)S V522/523<522AEZ>
3	8B-HC5-904-010		IB,LH(3L)S<523ALH>
3	8B-HC5-901-010		IB,U(3L)S<5210AU,5260CAU>
3	8B-HC5-925-010		IB,Y(EGF)S V520<520Y>
3	8B-HC5-927-010		IB,Y(PHNCZ)S V520<520Y>
△	3 8B-HC5-926-010		IB,Y(SID)S V520<520Y>
△	4 87-A91-017-010		PLUG,CONVERSION JT-0476<523ALH>
△	5 87-B30-283-110		AC ADAPTOR,AC-D603ENC<522AK,522AEZ,521AEZ>
△	5 87-B30-285-110		AC ADAPTOR,AC-D603HRNC<523ALH>
△	5 87-B30-282-010		AC ADAPTOR,AC-D603UNC<5210AU,5260CAU>
	6 87-B30-362-010		BAT,NB-305 NC(2PSC)<522AK,522AEZ>

QQ 376315150

892498299

TEL 13942296513 QQ 376315150 892498299

TEL 13942296513 QQ 376315150 892498299

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